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SWITZERLAND.

By Vice Consul Frank Bohr, Zurich, March 30.

The values of both the imports and the exports as well as the total value of the foreign commerce of Switzerland during the year 1916 were far greater than those of any previous year. The value of exports was practically double the average value of the last five normal years, 1909–1913. For the first time, also, during the thirty-odd years that these statistics have been kept, there was an active balance of trade in favor of Switzerland. Attention must be called, however, to the fact that these increased values during 1916 were to a great extent due to increased prices. The import values include also the costs for freight, etc., from the more or less distant countries of origin to the Swiss frontier, the costs being estimated to have increased on the average more than tenfold since the outbreak of the war. On the other hand, the export values include, in addition to the increased prices, only the relatively unimportant costs from the interior of Switzerland to the frontiers. The increase in the value of imports, therefore, does not indicate a corresponding increase in the quantity of foodstuffs and raw products imported.

Trade Conditions During 1916.

Statistics of the Swiss customs department indicate that when compared with 1913, the total value of all imports during 1916 increased 23.4 per cent, while the total quantity decreased 26.9 per cent. On the other hand, the total value of the exports increased 77.8 per cent and the total quantity increased 80.2 per cent. The greatly increased exports and the Swiss balance of trade during 1916 are much less favorable economically than commercially, for they were evidently attained only at the expense of the normal stocks of foodstuffs and raw materials. With regard to the supply of raw products, Switzerland has practically reached a point where its manufacturers in the principal export lines can accept offers only on the condition that the foreign purchaser is in a position to supply the necessary raw material. In view of the control exercised by each belligerent group over the consumption and use of the raw products, machines, etc., exported to Switzerland from or through their respective territories, many of the larger Swiss manufacturing concerns are compelled to maintain two distinctly separate stocks of all raw materials and also two sets of machines and manufacturing equipments.

The activity during 1916 in the principal export industries varied according to circumstances. The principal branches of the machinery and metal industries were generally very well supplied with orders, but they could not always secure the necessary raw materials. The

watch and clock industries during the greater part of the year found a ready market for their products, but toward the end of the year the surrounding belligerent countries, in order to improve their foreign exchange, restricted or prohibited the importation of so-called luxury articles, tending greatly to decrease the market for gold and silver watches. Therefore, the production of the more expensive watch cases and movements was materially reduced.

Industries Affected by Embargoes—Agricultural Conditions.

These import embargoes also seriously affected the silk goods and the embroideries industries, both of which experienced difficulty in obtaining the necessary raw products.

The cheese, condensed milk, chocolate, and other food products industries readily found a market at very good prices for all their surplus output; the principal drawbacks in these cases were the supplying of the raw material, such as milk, sugar, etc., and the question of how much could be exported in view of the domestic requirements for these foods. Great quantities of cheese were exported as compensation material to Germany and Austria, and it is understood that the stocks are already so completely used up that even if the war should end now it would—in view of the present greatly reduced milk production—require at least three or four years before Switzerland could approximate its former normal cheese exports. The principal exports of condensed milk and chocolate during 1916 were sent to Great Britain, France, and Germany.

The agricultural classes during 1916 had in general a very satisfactory year financially, owing to the high prices for all agricultural products, and to the great number of cattle which, because of the scarcity of stock food, were exported to Germany and Austria. But from a general economic point of view the results were far less satisfactory, as, on account of the moist, rainy spring and summer, the crops of hay, grain, grapes, and potatoes were very poor, and the fruit crop was only comparatively better.

National Bank and Foreign Exchange.

The average gold and silver reserve of the Swiss National Bank during 1916 was 325,470,000 francs ($62,815,710), as compared with 289,273,000 and 212,273,000 francs ($55,829,689 and $40,968,689), respectively, during 1915 and 1914. The 1915 official discount rate of 4½ per cent remained in effect during the whole of 1916. The average rates of the principal European belligerent countries were all higher, that of France, Germany, and Austria being 5 per cent, Italy 5.21 per cent, and England 5.47 per cent. The average rate of Holland was also 4½ per cent. The average foreign exchange rates have again continued to be generally in Switzerland's favor.

The total clearings of the six National Bank clearing houses at Basel, Berne, Geneva, Lausanne, St. Gall, and Zurich decreased from 4,147,000,000 francs ($800,371,000) in 1914 to 3,924,000,000 francs ($757,332,000) in 1915 but increased to 4,915,000,000 francs ($948,595,000) in 1916.

Public and Private Bond Issues.

The following table gives a comparison of the principal Swiss bond issues during the years 1915 and 1916. It is stated that no foreign bond issues were sold in Switzerland during 1916. The table does not include the emission in Switzerland of original capital stock

or the increases in capital stock, which together are said to have amounted to 100,000,000 francs ($19,300,000) during the year under review.

Bond issues.	1915		1916	
	Number.	Par value.	Number.	Par value.
Federal Government	2	$33,775,000	2	$38,600,000
Cantonal governments	10	18,335,000	5	6,967,300
Municipalities	19	10,963,172	12	6,581,300
Federal railways				
Other railways and tramways	2	21,230	4	887,800
Banks	10	18,142,060	9	7,720,000
Industrial undertakings	23	11,531,750	17	14,276,210
Total	66	92,768,152	49	75,032,610
Conversions and reissues	.....	9,954,940	.....	13,841,960
Total new issues	.....	82,813,212	.....	61,190,650

During the first part of 1916 the repurchase of Swiss securities, which had been thrown upon the market by their foreign holders in order to invest the proceeds in their respective war loans, continued to be a considerable drain on the Swiss money market. This condition, however, was relieved by the Governments of France and England requiring the holders of neutral securities to loan the same to them for a period of three years, with an increase of 25 per cent of the annual dividends. These titles were then deposited as a security for the loans of the respective Governments subscribed in neutral countries. A number of the bonds of the Swiss Federal Government, Federal railways, and cantonal governments were taken up and deposited in this manner, and the publication of these decrees immediately improved the exchange market here.

Among the 17 industrial loans named, 6, with a total of 40,220,000 francs ($7,762,460) and including only 3,620,000 francs ($698,660) conversions, were loans of electrical plants, which augurs well for the development of the Swiss electrical industries in spite of the war and probably largely because of the attendant scarcity of coal and other fuels. Besides these, there were three loans of important machine manufacturers, with a total of 18,500,000 francs ($3,570,500); two loans of industries in the food lines, with a total of 10,000,000 francs ($1,930,000), and a number of other minor loans.

Railways in Switzerland.

Below are given the total receipts from all sources and the total traffic expenditures of the Swiss railways during 1913, 1914, and 1916:

Railways.	Receipts.			Expenditures.		
	1913	1914	1916	1913	1914	1916
Federal	$41,055,000	$35,423,000	$37,171,000	$27,484,000	$26,003,000	$26,781,000
Normal gauge	3,604,000	3,199,000	3,640,000	2,651,000	2,645,000	2,764,000
Narrow gauge	4,279,000	3,371,000	3,395,000	2,744,000	2,747,000	2,679,000
Rack and adhesion	839,000	427,000	181,000	451,000	376,000	195,000
Tramways	3,546,000	3,388,000	3,744,000	2,892,000	2,845,000	3,027,000
Funiculars	553,000	411,000	359,000	395,000	287,000	244,000
Total	53,876,000	46,219,000	48,481,000	35,527,000	34,993,000	35,690,000

At the end of 1913 the total railway mileage in Switzerland was 5,493 kilometers (3,413 miles). The length of the Federal railways, including the narrow-gauge Bruenig line, was 2,726 kilometers (1,694 miles); the other normal gauge and narrow gauge lines, 2,218 kilometers (1,378 miles); tramways, 455 kilometers (283 miles); the funicular lines, 48 kilometers (30 miles); and the foreign railways, 46 kilometers (28.5 miles). During 1914 the total mileage was increased by only 44 kilometers (27 miles), during 1915 by 75 kilometers (47 miles), and during 1916 by 100 kilometers (62 miles), making the total length 5,714 kilometers (3,550 miles) at the end of 1916.

Decreases in Railway Receipts.

Decreased passenger receipts affected all classes of railways proper, only the tramways, which depend upon local traffic conditions, being comparatively unaffected. The various mountain railways suffered the greatest decrease, but the Federal and the other normal-gauge railways, which have heretofore brought the tourists into the interior of the country, also experienced decreased passenger receipts. Particularly was there a decline noticeable in the use of the through passenger lines as well as in the use of the first and second class accommodations. The freight-traffic receipts were less severely affected, because, although the international traffic has been much smaller, the domestic traffic has remained comparatively normal. The reduced expenditures during the first two war years were the result of the greatest possible economy in all departments of the railway service. The increased expenditures during 1916 as compared with the two previous years was due to the necessary increase in wages, increased cost of coal, etc.

This highly unsatisfactory condition of the Swiss railways is still further augumented by the fact that not only must the considerable improvements and extensions which were under way at the outbreak of the war be carried to completion, but also the highest considerations of national economy and industrial independence absolutely require that the various Federal and private lines be electrified as soon as possible. Some further efforts are now being made in this direction, but besides the unsatisfactory finances there is the additional difficulty of obtaining the necessary materials for these improvements.

Foreign Commerce.

The following table shows the value of the total foreign commerce of Switzerland during the years 1914, 1915, and 1916:

Items.	1914	1915	1916
Imports:			
Merchandise	$285,332,838	$324,245,839	$459,051,391
Gold and silver coin	6,212,683	8,434,497	27,332,348
Total	291,545,521	332,680,336	486,383,739
Exports:			
Merchandise	229,069,200	322,320,859	472,408,952
Gold and silver coin	1,565,383	551,177	263,534
Total	230,634,583	322,872,036	472,672,486
Total trade:			
Merchandise	514,402,038	646,566,698	931,460,343
Gold and silver coin	7,778,066	8,985,674	27,595,882
Grand total	522,180,104	655,552,372	959,056,225

Below is given, by principal countries, the value of the total imports and exports of Switzerland during the years 1915 and 1916:

Countries.	Imports from.		Exports to.	
	1915	1916	1915	1916
Germany	$80,719,234	$91,158,023	$88,262,493	$136,755,515
United States	20,801,379	108,999,350	20,682,344	25,598,419
France	42,598,235	45,621,927	42,555,227	77,420,874
Great Britain	14,702,949	30,787,194	68,538,921	81,838,169
Italy	37,458,492	75,318,487	17,270,885	28,939,711
Austria	19,859,957	8,635,506	39,218,767	37,706,359
Argentina	4,703,833	24,654,838	3,184,610	4,326,184
Spain	2,842,216	13,117,711	6,480,657	9,314,346
Russia	10,331,528	165,925	5,648,178	11,784,525
Netherlands	5,482,372	5,886,119	2,982,399	4,931,599
British India	1,698,165	5,153,184	3,292,770	4,379,092
Egypt	4,579,361	7,721,447	1,380,749	1,764,599
Brazil	3,276,637	6,195,530	1,685,974	3,285,976
Dutch Indies	1,423,227	6,529,698	1,423,580	1,608,271
Canada	2,890,743	201,215	5,009,873	7,565,224
Sweden	293,989	1,933,397	2,477,435	5,180,201
Belgium	3,831,008	5,209,967	1,905,777	1,524,897
Australia	2,062,254	2,515,623	2,806,705	3,692,537
Japan	1,846,350	3,933,559	1,275,909	2,212,794
Roumania	1,111,757	1,254,652	2,203,332	3,891,111
Denmark	367,888	329,798	2,076,395	4,229,040

Notable Increase in Trade with United States.

The most striking feature of Swiss commerce is the increase in the trade with the United States, that country having attained second place after Germany in the value of the total foreign commerce and first place in the value of the total imports. Although both the imports to and the exports from Great Britain increased very materially, these increases were nevertheless relatively smaller than those of the United States and France. The values of the total commerce with Italy, Spain, and Argentina also increased very materially.

Continued geographical war readjustments during the report year are indicated in the fact that the percentages of the value of the total imports into Switzerland from Germany, France, Italy, and Austria, and from the whole of Europe, including the British Isles, showed respective decreases from 67.56 and 81.81 in 1914 to 55.46 and 68.08 in 1915 and to 48.09 and 61.21 in 1916. During the same period imports from the United States and from North and South America increased from 7.29 per cent and 12.30 per cent, respectively, in 1914, to 19.31 per cent and 24.42 per cent in 1915 and to 23.74 per cent and 30.95 per cent, respectively, in 1916. The total exports to the four adjacent countries—Germany, France, Italy, and Austria—and to the whole of Europe, including the British Isles, increased, respectively, from 45.47 per cent and 76.94 per cent in 1914, to 55.32 per cent and 85.18 per cent in 1915, and to 59.44 per cent and 86.59 per cent in 1916. The percentages of exports to the United States and to the two Americas, respectively, decreased from 10.27 and 16.05 in 1914 to 6.42 and 10.18 in 1915 and to 5.42 and 9.45 in 1916.

The war has therefore placed Switzerland in a position where it must depend more upon distant countries for its supplies in foods and raw products, which constitute about three-fourths the value of its total imports; on the other hand, there is a continually increasing market in the more adjacent countries for Swiss manufactured products, which constitute about three-fourths of the total exports.

Imports by Countries of Origin.

The following table gives the total quantity and value of the principal imports into Switzerland during 1915 and 1916 and the value from the chief countries of origin:

Articles.	1915		1916	
	Tons.	Value.	Tons.	Value.
Alcohol, absolute	[a] 1,506	$1,870	[a] 3,565,086	$3,429,671
United States				2,624,609
Netherlands				669,356
Argentina				135,174
Alcohol, denatured	5,835	763,099	4,825	1,406,831
United States		1,612		1,209,501
Netherlands		137,901		79,018
Russia		22,036		67,934
Dutch Indies		107,164		34,220
Aluminum sulphate	24,871	1,106,450	29,610	1,860,150
Germany		1,059,319		1,762,609
United States				55,214
Aniline, raw products	2,440	849,603	14,084	2,560,620
Great Britain		658,169		1,226,312
Austria-Hungary		8,338		728,604
Germany		150,694		230,658
Barley	25,367	1,332,446	28,116	1,955,419
United States		1,101,750		1,158,250
Spain		71,813		797,008
Russia		83,052		
Books, magazines, etc	3,411	2,605,953	3,377	2,268,725
Germany		1,696,007		1,516,748
France		673,184		614,772
Italy		170,834		64,211
Briquets	954,822	5,910,836	776,703	6,184,483
Germany		5,258,275		5,086,396
Belgium		625,648		1,042,876
Cocoa beans	19,004	6,833,737	16,209	5,931,892
Central Africa		3,364,298		4,758,601
Colombia		709,523		605,671
Central America		322,503		133,769
Brazil		1,546,121		126,892
British India		398,145		66,423
Caustic potash and soda	10,029	526,396	10,058	1,093,519
Germany		441,361		469,281
Great Britain		62,933		190,869
France				178,471
Austria-Hungary				161,946
Coal	2,060,197	13,287,435	1,791,361	14,674,215
Germany		11,689,765		11,845,492
Belgium		1,423,876		2,796,190
France		53,100		21,301
Cocoa butter	1,409	1,109,856	2,448	2,036,469
Netherlands		1,035,252		1,275,841
Great Britain		74,344		497,795
United States				253,390
Coffee, raw	14,435	3,610,450	21,916	6,154,560
Brazil		2,959,118		5,708,709
British India		196,628		195,948
Central America		265,581		104,151
Dutch Indies		114,207		102,869
Coke	649,189	4,898,049	898,673	8,272,607
Germany		4,826,591		7,784,632
Belgium				372,102
France				102,776
Copper bars	3,004	1,188,460	6,911	3,630,446
United States		547,711		2,627,618
Japan		423,182		651,491
France				218,515
Italy				79,555
Copper rods, sheets, etc	2,504	1,244,865	9,390	5,754,584
United States		740,942		3,671,748
Great Britain		98,191		813,032
Italy		95,434		505,342
Germany		191,464		350,584
France		118,726		312,621
Copper wire	2,990	1,444,948	3,101	1,873,302
United States		1,019,709		1,529,058
France		323,709		162,933
Germany		77,079		99,944
Copper, other	2,410	1,231,709	5,555	3,871,694
Great Britain		14,580		2,283,888

[a] Gallons.

Articles.	1915		1916	
	Tons.	Value.	Tons.	Value.
Copper, other—Continued.				
France		$598,536		$435,981
United States		30,072		415,493
Germany		377,344		382,355
Italy		183,209		210,265
Corn	124,906	5,248,699	133,468	9,008,525
Argentina		4,645,683		9,007,348
United States		541,226		
Cotton, raw	35,015	12,284,272	29,394	15,743,670
United States		6,877,228		8,719,192
Egypt		5,226,170		6,760,682
British India		180,847		258,543
Cotton cloth, plain	4,844	4,775,100	5,697	7,457,153
Great Britain		4,646,550		6,771,963
Italy		90,000		274,353
Germany		99,769		236,087
Cotton yarn	6 859	7,507,138	5,452	5,996,577
Great Britain		6,082,626		3,945,844
Italy		890,889		1,928,784
France		87,039		63,727
Eggs	51,314	2,012,536	3,695	1,796,040
Italy		842,505		983,281
Netherlands		561,308		632,824
France		168,120		164,612
Gold and silver coin	157	8,434,497	159	27,332,348
Germany		5,592,789		11,734,046
Austria-Hungary		636,092		11,548,485
France		54,494		3,944,812
Hardware and notions	1,323	1,700,210	1,419	2,354,514
Germany		1,110,177		1,374,849
France		208,236		443,842
Italy		93,958		210,885
Austria-Hungary		118,765		157,567
Hogs	a 24,704	715,474	a 37,044	1,789,673
Italy		698,346		1,768,954
Incandescent lamps, etc	192	710,115	257	975,692
Germany		346,644		678,896
Austria-Hungary		338,828		272,103
Instruments and apparatus	1,528	2,271,104	1,937	2,939,481
Germany		1,651,097		1,990,015
United States		189,093		511,795
France		185,811		210,971
Great Britain		150,327		152,438
Iron rods	32,413	968,717	54,128	3,288,349
Germany		842,767		1,724,164
Great Britain		32,142		1,146,123
United States		8,305		121,692
Austria-Hungary		65,284		117,469
Iron, sheet, galvanized, etc	23,299	3,377,708	21,295	3,426,519
Great Britain		2,606,705		2,416,755
Germany		479,441		716,488
United States		97,380		154,307
Belgium				65,275
Iron and steel, raw	141,828	3,051,955	100,821	4,013,996
Germany		2,067,569		2,151,626
Great Britain		85,039		750,926
Sweden		575,015		616,603
United States				319,525
Lard	4,251	1,258,090	2,911	1,223,450
United States		1,243,556		1,222,061
Leather	3,637	4,076,384	5,541	7,565,386
United States		2,362,371		5,338,373
Germany		899,250		1,117,928
France		388,055		407,234
Argentina		64,896		346,439
Great Britain		196,405		279,485
Machinery	20,222	4,893,480	25,613	6,195,471
Germany		3,839,985		4,768,286
United States		306,612		483,398
Great Britain		279,414		336,302
France		216,960		294,826
Austria-Hungary		123,333		128,850
Malt	29,623	2,794,614	20,513	2,510,461
United States		114,965		1,677,768
France		752,611		659,716
Great Britain		1,059,130		119,567
Oats	109,826	6,035,950	105,973	6,930,982
United States		5,225,717		3,397,906
Argentina		231,887		2,871,449
Spain		323,692		611,832

a Number.

Articles.	1915		1916	
	Tons.	Value.	Tons.	Value.
Oils, edible	11,921	$2,668,263	10,482	$3,738,305
France		1,975,908		2,497,908
United States		432,810		968,011
Italy		110,479		117,935
Spain				84,443
Oils, lubricating	13,885	1,244,389	11,541	1,452,946
United States		1,098,044		1,145,135
Austria-Hungary				244,245
Roumania				50,288
Oils, petroleum	36,295	2,069,207	37,844	2,054,080
Roumania		310,645		766,715
Austria-Hungary				564,903
United States		1,748,846		722,459
Oil cake and meal	19,113	770,048	29,224	1,314,295
Italy		108,710		654,738
France		592,184		342,192
Greece		22,640		180,421
Spain				112,412
Potatoes	33,489	694,148	85,712	2,582,516
Germany		416,888		1,908,184
Netherlands		65,276		340,444
Italy		3,239		225,278
Spain		42,032		85,980
Poultry, dressed	1,648	946,982	1,829	1,150,658
France		612,891		656,129
Italy		324,219		465,657
Rice	20,793	1,351,177	22,412	2,236,754
British India		486,121		1,807,025
Italy		59,615		272,247
Spain		486,121		104,376
Silk fabrics	324	2,788,732	287	2,665,987
France		1,243,400		1,251,500
Germany		1,046,622		847,195
Italy		157,006		345,957
Silk floss (schappe)	503	2,127,120	578	3,592,406
Italy		1,353,264		3,161,051
France		649,773		304,072
Germany		120,450		127,283
Silk, raw	5,710	41,867,625	5,957	61,803,579
Italy		30,372,970		48,255,153
France		6,473,954		9,705,417
Japan		2,192,306		1,643,935
China		2,104,279		956,026
Silk ribbon	159	1,634,936	121	1,269,330
Germany		1,461,913		1,003,833
France		160,878		246,606
Silk waste	1,662	2,037,423	2,596	3,079,576
Italy		1,191,224		2,485,435
France		401,830		407,085
Silver bullion	68	1,095,030	94	1,990,908
France		916,831		1,668,940
Great Britain		150,731		267,953
Straw braid (raw)	1,370	904,591	2,396	1,679,571
Japan		519,556		723,943
China		221,998		574,800
Italy		158,067		377,739
Sugar	131,682	8,183,916	121,649	15,789,902
United States		224,907		7,444,118
Dutch Indies				4,686,475
Netherlands		307,310		1,539,939
Austria		5,881,574		1,169,147
Tin bars	1,477	1,137,843	1,408	1,108,988
British India		563,784		565,828
Dutch Indies		270,470		349,137
France		89,251		68,612
Tobacco	8,815	2,598,722	10,913	3,584,562
United States		1,453,552		2,143,805
Dutch Indies		459,818		524,111
Italy				249,433
British India				119,795
Brazil		161,854		101,101
Vegetables	31,784	1,516,120	27,713	1,681,389
France		676,950		588,824
Italy		355,928		500,567
Germany		283,797		243,090
Netherlands		116,339		208,644
Wheat	531,795	33,985,541	659,144	58,384,230
United States		32,256,632		53,291,688
Argentina		467,846		5,089,850
Wine in barrels	[a]28,177,456	6,733,738	[a]23,000,557	10,724,484
Spain		2,971,924		7,369,580

[a] Gallons.

Articles.	1915		1916	
	Tons.	Value.	Tons.	Value.
Wine in barrels—Continued.				
Italy		$2,106,358		$2,067,970
France		1,270,159		741,792
Portugal				293,845
Wool, raw	8,707	5,431,858	14,560	10,274,602
Argentina		3,353,597		6,398,251
Australia		1,234,613		2,457,334
Spain		293,854		636,348
Woolen cloth, bleached, dyed, etc	1,274	3,995,671	1,633	4,353,198
Great Britain		1,327,126		1,586,456
France		326,598		1,289,047
United States				928,687
Italy				268,984
Germany		2,440,740		176,788
Woolen clothing	505	1,876,529	561	2,704,914
Germany		1,594,614		1,966,284
France		154,979		528,917
Great Britain		93,451		197,478

Details of Exports.

The following table gives the total quantity and value of the principal exports from Switzerland during the years 1915 and 1916 and the share of the principal countries of destination:

Articles.	1915		1916	
	Tons.	Value.	Tons.	Value.
Aluminum and products	10,376	$7,218,360	12,539	$9,546,069
Germany		6,722,801		8,499,359
France		189,063		442,100
Italy				199,491
Automobiles and trucks	[a] 1,444	5,503,428	[a] 1,274	4,830,191
France		1,956,936		1,910,939
Germany		2,102,949		1,270,471
Austria-Hungary		263,420		609,822
Roumania		203,491		304,282
Netherlands				229,678
Books, magazines, etc	1,193	931,872	1,661	1,144,120
Germany		437,097		463,035
France		236,930		387,822
Austria-Hungary		53,372		74,871
Spain				52,133
Boots and shoes, cloth	347	857,596	346	1,038,075
Great Britain		306,495		312,789
Germany		205,864		143,746
France		77,686		139,451
Austria-Hungary		53,953		123,397
Boots and shoes, leather	1,635	5,399,328	1,505	6,238,632
France		1,637,496		2,046,477
Great Britain		1,131,751		1,187,160
Austria-Hungary		296,518		1,184,290
Germany		968,609		704,012
Italy		392,782		526,096
Bread	3,299	289,216	14,830	1,392,910
Germany		203,785		1,212,550
Austria		80,340		178,016
Cakes and confectionery	2,659	1,058,113	2,804	1,568,489
France		320,936		504,476
Germany		224,499		468,510
Austria-Hungary		261,368		410,392
Calcium carbide	61,081	2,409,528	63,945	3,354,044
Germany		2,126,668		2,712,955
France				554,640
Cattle	[a] 11,756	1,491,649	[a] 61,361	13,537,895
Germany		299,157		11,051,685
Austria-Hungary		405,766		2,161,944
Spain		93,740		141,938
Italy		557,247		113,808
Cheese	39,388	14,068,210	23,608	12,835,664
Germany		3,725,221		7,208,811
Austria-Hungary		3,703,281		2,233,439
United States		3,088,820		1,410,336
France		3,088,820		1,174,312
Belgium		300,267		224,439

[a] Number.

Articles.	1915		1916	
	Tons.	Value.	Tons.	Value.
Chocolate	30,058	$17,511,441	22,194	$14,692,784
Great Britain		6,224,733		5,158,282
Germany		3,213,505		2,733,501
France		2,030,676		2,518,337
Italy		1,129,869		641,274
Australia				586,305
Sweden				422,033
Cigars and cigarettes	468	595,374	897	1,307,179
Germany		110,668		466,975
France		49,976		221,742
Argentina		103,774		95,068
Russia				78,527
Condensed milk	48,153	9,048,344	43,843	11,058,082
Great Britain		3,763,161		2,944,227
Germany				1,903,113
France		813,682		1,564,867
British India		611,862		868,803
Spain		489,795		836,503
Austria-Hungary		832,800		730,025
Copper and products	8,729	7,825,543	12,425	26,573,679
Great Britain		654,535		15,595,439
France		3,636,693		7,546,302
Italy		289,564		2,080,884
Russia				523,677
Austria-Hungary		553,369		415,006
Cotton cloth, bleached, dyed, etc	3,265	7,084,830	2,589	10,960,375
Germany		2,630,838		6,664,136
Austria-Hungary		713,958		1,145,899
United States		519,734		528,864
Roumania				298,372
Cotton cloth, plain	4,634	5,249,392	5,565	11,155,487
Germany		3,834,282		8,259,105
Austria-Hungary		1,122,618		2,761,783
Drugs, etc	1,312	3,247,463	1,140	4,085,547
France		535,307		887,920
Great Britain		641,460		833,222
Russia		346,619		438,125
Germany		314,434		325,337
United States		101,773		277,502
Dyes and colors, aniline	5,293	5,585,736	4,560	10,033,393
Great Britain		2,958,787		4,659,850
United States		819,528		1,572,522
France		335,230		1,277,292
Italy		741,577		1,055,863
Spain				294,605
Brazil				277,229
Dyes and colors, indigo	1,047	434,525	817	1,122,977
United States		156,191		388,682
Great Britain		3,981		357,424
China		47,355		117,522
Spain		39,669		100,485
Embroideries	7,968	35,141,825	8,126	44,462,994
Great Britain		13,681,356		14,672,961
United States		7,548,756		6,790,532
France		2,023,370		3,432,003
Germany		2,132,830		2,883,300
Spain		1,335,445		2,053,671
Canada				1,312,137
Netherlands				1,290,969
Denmark				1,239,111
Australia				1,102,922
Ferrosilicon	21,257	1,946,387	24,997	3,140,812
Germany		1,703,741		2,208,869
Austria-Hungary		226,684		925,992
Hides and skins	7,335	4,965,925	3,038	2,616,949
Germany		4,498,836		1,405,604
United States		203,468		641,166
Austria-Hungary		54,941		293,723
Incandescent lamps, etc	159	537,956	228	992,648
Italy		274,272		500,365
France		41,241		245,300
Instruments and apparatus	2,684	3,425,955	3,507	5,136,087
Great Britain		1,928,872		1,072,862
France		590,098		955,694
Italy		292,663		746,990
United States		246,939		451,052
Germany		453,372		430,828
Iron, old	50,814	940,350	51,168	1,419,360
Italy		909,102		1,314,522
France		33,318		102,364

Articles.	1915		1916	
	Tons.	Value.	Tons.	Value.
Iron, wrought, manufactures of	3,028	$2,676,896	3,790	$4,262,926
France		1,354,031		2,379,242
Italy		259,636		1,119,733
Great Britain		402,277		396,372
Germany		462,039		119,117
Iron, wrought, raw	9,892	1,537,290	17,216	2,887,679
France		99,046		1,245,986
Italy		496,059		839,552
Germany		684,436		516,016
Jewelry		653,063		1,130,434
France		329,605		592,722
Spain		56,493		126,665
Russia		22,422		83,201
Lumber, pine	148,783	2,942,328	429,188	10,224,353
France		1,608,312		6,310,607
Italy		1,311,702		3,808,261
Machinery: Dynamos, electric	6,414	2,942,408	8,109	4,369,381
France		679,879		1,328,045
Germany		578,585		946,476
Spain		232,340		427,907
Russia		162,674		300,650
Netherlands		95,868		275,367
Machinery: Gas, petroleum, and benzine motors	6,031	1,930,684	8,712	3,123,325
France		257,741		1,002,313
Russia		2,591		286,281
Brazil		43,842		178,645
Egypt		133,287		202,761
Germany		303,817		178,645
Machine tools	7,345	3,164,007	16,789	9,391,738
France		1,164,135		5,025,235
Italy		751,262		3,007,990
Germany		548,239		708,203
Great Britain		56,518		195,589
Machinery: Steam engines	3,068	1,054,261	3,903	1,695,888
Russia		229,541		494,703
France		145,698		448,726
Germany		292,351		271,360
Spain		71,725		122,749
Machinery: Hydraulic motors, etc	3,886	1,246,211	4,951	1,889,404
France		209,312		647,153
Spain		279,026		272,710
Germany		226,684		178,376
Russia		35,566		163,780
Italy		86,351		137,881
Machinery, all other		4,746,286		7,051,642
France		920,882		2,063,645
Italy		776,251		1,140,990
Germany		485,625		677,413
Spain		421,963		581,646
Meat, cured and preserved	277	151,583	1,597	1,060,050
Germany		61,707		938,814
Austria-Hungary		75,320		81,070
Perfumery and cosmetics	233	1,543,691	234	1,976,042
France		210,685		385,949
Russia		187,861		366,459
Great Britain		364,371		318,111
Japan				182,667
Rags, etc	6,556	880,039	6,282	1,862,657
Austria-Hungary		554,169		1,773,245
Germany		95,706		61,239
Silk, artificial	1,047	1,775,819	733	2,272,162
Germany		252,363		804,111
Austria-Hungary		348,897		586,310
Spain		287,409		274,062
United States		382,169		221,714
Great Britain				155,759
Silk bolting cloth	43	1,236,323	48	1,561,697
United States		277,692		363,262
Germany		504,123		318,199
Russia		129,140		221,308
Austria-Hungary		160,131		186,977
Great Britain		116,794		168,535
Silk, dyed	394	3,104,124	519	5,497,052
Germany		1,942,435		3,509,038
Austria-Hungary		769,978		1,499,878
Italy		203,279		219,201
Brazil				103,844
Silk fabrics	2,752	23,543,350	2,698	30,801,340
Great Britain		12,869,818		9,121,330
Germany		614,024		4,896,845

Articles.	1915		1916	
	Tons.	Value.	Tons.	Value.
Silk fabrics—Continued.				
Canada		$2,616,203		$4,140,558
Austria-Hungary		1,760,430		2,850,533
France		954,771		1,860,366
Sweden		613,991		1,546,626
Denmark		585,473		1,070,195
Netherlands		348,951		794,743
United States		648,984		794,370
Silk floss (schappe)	1,634	6,632,375	1,307	15,399,750
Germany		2,708,098		7,304,671
United States		2,037,801		4,761,663
Austria-Hungary		1,313,473		2,092,025
Great Britain		268,561		477,885
France		178,215		338,510
Silk, raw	2,389	17,330,671	2,015	27,702,200
Germany		14,423,314		24,614,204
Austria-Hungary		2,008,374		2,027,044
Italy		444,259		590,546
Silk ribbons	1,092	11,584,157	1,169	14,111,061
Great Britain		8,287,897		9,386,039
Canada		760,879		947,327
France		262,156		794,668
United States		398,978		461,344
Australia		538,263		361,370
Argentina				361,322
Silk waste	1,391	1,037,320	2,163	3,501,782
Austria-Hungary		96,624		1,698,439
Germany		707,352		1,675,770
France		53,246		116,731
Straw goods	1,636	3,063,231	2,834	5,795,083
Germany		790,757		1,997,256
Great Britain		843,299		1,158,067
France		353,381		672,735
Austria-Hungary		303,565		599,895
United States		336,754		316,905
Watches, clocks, etc	[a]16,057,011	26,365,331	[a]21,095,568	40,109,068
Great Britain		6,407,446		5,750,961
Russia		2,754,275		5,723,567
Germany		3,292,778		5,681,721
United States		2,230,873		3,968,662
Austria-Hungary		2,998,711		3,199,035
France				3,147,799
Italy				1,774,737
Spain				1,349,740
British India				1,168,700
Canada				795,637
Australia				786,827
Woolen yarns	584	1,418,992	1,291	3,899,367
France		1,155,781		3,890,818
Woven and knit goods	995	3,713,443	1,328	5,197,585
Great Britain		2,125,934		2,796,206
Germany		260,331		516,462
United States		360,754		436,089
France		395,924		350,269
Netherlands				200,083
Argentina				187,362

[a] Number.

Imports from United States.

Following are the values of the principal imports from the United States into Switzerland during 1915 and 1916:

Articles.	1915	1916	Articles.	1915	1916
Acetic acid, etc	$363,149	$455,575	Benzene	$915,777	$11,696
Agricultural machinery	43,247	74,500	Boiler plates		56,487
Alcohol:			Boots and shoes	51,763	34,277
Absolute		2,624,609	Bran and milling wastes	8,668	297,982
Denatured		1,209,501	Bromides and iodides		122,130
Aniline, etc		200,566	Cocoa butter		253,390
Automobiles	21,751	27,284	Copper and products	2,383,434	417,423
Barley	1,101,750	1,158,249	Corn	541,226	
Barrels		139,735	Corsets	1,235	22,388

Articles.	1915	1916	Articles.	1915	1916
Cotton	$6,877,228	$8,719,192	Potassium and sodium hydrates	$18,725	$92,872
Cotton yarn	.....	197,560	Prunes	12,743	71,082
Fats and oils, technical	74,433	153,750	Rye	.....	48,351
Felts	4,753	27,877	Sausage casings and rennets	180,030	133,209
Films	13,703	22,870	Sheet iron:		
Flour	529,139	.....	Galvanized, etc	97,380	154,307
Fruits, dried	37,389	79,095	Polished	.....	93,459
Horses	294,167	144,364	Shoes, india rubber	15,633	56,453
Instruments and apparatus	24,605	151,474	Silver, raw	12,287	37,768
Iron and steel, raw	.....	319,525	Starch	14,999	131,950
Iron pipes	38,795	51,157	Sugar	224,907	7,444,118
Iron rods	8,305	121,691	Tallow, etc	25,013	62,602
Lard	1,243,556	1,222,061	Tanning extracts	10,808	147,725
Leather	2,362,371	5,338,373	Tin in bars	10,955	28,400
Leather articles	22,664	56,883	Tobacco	1,453,552	2,143,805
Logwood extract	85,576	186,206	Tools:		
Lumber, pine	82,676	31,449	Agricultural	41,713	50,275
Malt	114,965	1,677,768	Machine	121,795	282,771
Meats, cured and preserved	110,975	319,257	Turpentine	5,134	55,047
Molasses and sirup	212,041	436,064	Typewriters and cash registers	164,488	360,302
Oatmeal, groat, etc	45,054	877,239	Vaseline	1,447	22,913
Oats	5,225,717	3,397,906	Wheat	32,256,652	53,291,686
Oils:			Wool, raw, washed and dyed	20,381	81,364
Edible	432,810	968,011	Woolen cloth	81,836	928,687
Lubricating	1,098,044	1,145,135	Zinc bars	41,317	34,419
Petroleum	1,748,846	722,459			
Oleomargarine and food tallows	85,437	310,383			
Paraffin and ceresin	101,557	218,599			

Declared Exports to United States.

Declared exports to the United States and the Philippine Islands from all American consular districts in Switzerland were as follows:

Articles.	1915	1916	Articles.	1915	1916
TO UNITED STATES.			TO UNITED STATES.		
Aluminum manufactures	$1,131	.....	Hat materials	$299,453	$299,957
Amber manufactures	814	$2,654	Hides and skins:		
Asphaltum	2,079	3,380	Calf	204,295	410,353
Automobiles	3,867	.....	Goat	.....	65,139
Ball bearings	38,471	609	Kid	.....	86,320
Books and other printed matter	27,349	19,706	Other	63,785	53,339
Brass manufactures	7,145	2,082	Instruments:		
Cocoa	3,444	1,685	Drawing and mathematical	.....	2,204
Carpets, Persian	.....	3,692	Scientific and surgical	2,642	22,058
Cheese	2,436,791	1,485,193	Ivory, carved	2,280	2,222
Cheese-factory supplies	.....	1,135	Jewelry, silverware, etc	6,971	2,884
Chemicals, drugs, and medicines	236,673	565,537	Kirschwasser	2,763	5,078
Chocolate	39,017	25,975	Knit goods:		
Chronometers, etc	.....	4,578	Cotton	191,825	196,599
Clocks and clock movements	4,538	7,151	Silk	44,095	104,472
Condensed milk	553,492	643,864	Silk, artificial	23,455	33,753
Cotton:			Woolen	49,318	90,299
Bindings	1,777	.....	Underwear	36,564	24,753
Cloth	663,584	445,165	Other	204	1,289
Wearing apparel	5,975	657	Laces:		
Dyes and dyestuffs:			Cotton, hand machine	36,108	38,776
Aniline colors	922,959	2,046,990	Cotton, Schiffli machine	1,227,315	1,070,307
Artificial indigo	247,513	397,742	Curtains	322,123	473,430
Coloring extracts	21,842	27,630	Silk and trimmings	8,201	11,785
Effects, household and personal	48,198	13,081	Leather and leather goods	567	2,539
Electric-light carbons	1,019	2,904	Machinery:		
Embroideries	5,654,277	4,938,742	Embroidery	.....	50,508
Files and gravers	28,745	46,323	Knitting	21,734	28,902
Flax manufactures	8,639	1,992	Machine tools	4,964	2,924
Food products	21,597	30,518	Other	201,957	218,490
Furs and fur skins:			Metal and hardware	5,465	5,482
Fox	96,427	.....	Musical instruments	9,373	24,645
Mole	.....	51,841	Paintings	13,374	2,947
Other	215	27,604	Paints, colors, and varnishes	3,530	44,218
Gelatine	30,096	12,182	Paper:		
Glue	83,111	10,022	Drawing, tracing, etc	5,171	30,383
Hats, straw	45,117	52,727	Tags, etc	13,357	14,726
			Pearls	1,573	2,172

Articles.	1915	1916
TO UNITED STATES—con.		
Perfumes and substances	$165,755	$208,437
Phonographs and parts	181,130	347,443
Pictures and chromos	7,634	12,945
Sanitary crêpe	3,218	126
Silk:		
Artificial	396,128	207,852
Bolting cloth	271,323	375,711
Manufactures	7,931	7,591
Ribbons	417,625	350,310
Raw	52,774	124,052
Floss	851,100	2,031,462
Other	599,715	708,278
Stones:		
Precious—		
Brilliants	6,159	13,063
Diamonds	50,730	139,389
Other	55,423	34,155
Semiprecious—		
Agates	1,973	4,128
Other	27,835	920
Imitation	105,050	164,479
Time detectors	8,576	6,726
Watches and parts	2,009,347	3,642,909
Watch:		
Crystals	140,167	162,842
Dials and enamel	3,740	4,088
Jewels, etc	445,081	456,969
Movements	160,800	397,736
Springs	34,593	52,506
Wines and liquors	6,809	13,834
Wire	17,133	58,460
Woodcarvings	3,522	2,185
Woolen textiles	4,165	.....
Yarn, cotton, and silk	$42,086	$588
All other articles	260,498	534,404
Total	20,302,514	24,059,078
TO PHILIPPINE ISLANDS.		
Asbestos cement	.....	1,157
Automobiles	3,245	.....
Books, papers, and pictures	1,028	1,881
Cheese	2,291	2,676
Chemicals	1,896	2,095
Chocolate	4,767	4,223
Condensed milk	125,489	150,457
Cotton goods	336,451	210,935
Embroideries	84,474	37,082
Food supplies:		
Preserves	4,136	255
Other	2,423	1,900
Incandescent lamps	.....	3,990
Knitted goods	3,896	673
Laces, cotton	1,775	14,653
Linen goods	.....	2,410
Locomotives and railway cars	179,606	.....
Machines	3,075	3,362
Silk goods	24,222	14,268
Silk ribbons	.....	1,551
Watches and parts	5,754	9,260
Woolens	4,881	167
Yarns, cotton and silk	16,310	.....
All other articles	5,034	1,148
Total	810,753	464,143

Extended Federal Control of Commerce and Industry.

Through the exigencies of the commercial and industrial warfare of the two belligerent groups the substitution of governmental organization and control for private activity and initiative, which was already a characteristic development during 1915, was very greatly extended in 1916. The trade in and the consumption of the principal food products, as well as such raw and industrial products as cotton, leather, fur skins, rags and metals, wood pulp and paper, lumber and walnut timber, petroleum and benzene, linseed oil, and all greases, oils, resins, and waxes were placed under more or less complete control or monopolization by the Swiss Federal Government. During 1917 this control has been even further extended, and it may be safely assumed that, in many instances, it will be continued at least for a while after the end of the war.

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